VENKATA PRADEEP REDDY VENUTHURLA

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EDUCATION

Arizona State University, Tempe   *August 2025 – Expected December 2026*
Master of Science, Computer Science

PES University   *August 2019 – May 2023*
Bachelor of Technology in Computer Science and Engineering   CGPA: 3.43/4.0

TECHNICAL SKILLS

Languages: Python, Java, JavaScript/TypeScript, C/C++, Go, Ruby, HTML/DOM, Postman, Bash, React, OpenAPI, Linux/Unix, Git, Docker, Kubernetes, Redis, Elasticsearch, SQL, Kafka, Hadoop, Spark, Postgres, MongoDB, TensorFlow, Keras, PyTorch, OpenCV.
Technologies: Spring Boot, Reactjs, Flask, Nodejs, MuleSoft, DynamoDB, Scala, GCP, AWS, Gradle/Maven.
Courses: Algorithms and Data structures, Web development, Statistics for Data Science, Cloud Computing, Software Design Patterns, Distributed Database Systems, Statistical Machine Learning,Deep Learning.

WORK EXPERIENCE

IDFC First Bank | *Software Engineer, API Integration Team*   *July 2023 – July 2025*
- Engineered **Partner Developer Portal** enabling fintech partners (Amazon Pay, Cred, Flipkart) to explore, test, and integrate APIs; delivered Swagger-based simulations, real-time validation, and sandbox testing, reducing partner onboarding time by **60%**.
- Architected **API Inventory Platform (manages 7000 Endpoints/1500 APIs)** for API lifecycle and compliance management; improved developer efficiency by **60%** and reduced RBI compliance delays by **40%** via advanced search and metadata workflow automation (Full Stack Development).
- Enhanced **Digital Lending APIs** on MuleSoft, scaling to **100+ TPS** for Aadhaar OTP and CKYC flows, improving onboarding performance and regulatory compliance.
- Led **infrastructure modernization**, On Premise to AWS migration, MySQL to Oracle transition, disaster recovery upgrades, increasing availability and reliability while reducing infra costs by **50%**.

IDFC First Bank | *Application Engineer Intern, API Integration Team*   *February 2023 – June 2023*
- Built APIs for collections app, **reducing manual data retrieval by 30%**.
- Created JLG (Joint Liability Group) APIs enabling field agents to access overdue amounts, customer assignments, and batch details from Salesforce (SFDC), improving operational efficiency and **turnaround time by 25%**.

Arternal | *Machine Learning Engineer Intern, Computer Vision Team*   *May 2021 – October 2021*
- Optimized **fruit-harvesting robot vision models**, boosting disease classification and fruit detection accuracy to 91% while reducing inference time by 20%, enabling real-time field deployment.
- Delivered **end-to-end ML workflows**, data collection, preprocessing, annotation, model training, hyperparameter tuning, and deployment, accelerating experimentation cycles by 30%.

ACADEMIC PROJECTS

BuildMyWeb (Image to HTML code) | *Github Link*   *August 2021 – December 2021*
- Developed a CV pipeline converting hand-drawn wireframes into HTML/CSS using OpenCV and a custom **TensorFlow CNN + CTC** (Connectionist Temporal Classification) model, achieving **95%** text recognition accuracy.
- Created React-based editor for **real-time UI customization**, delivering downloadable templates that **cut prototyping time by 30%** and reduced manual redesign effort by 40%.

Conversational Traffic Analytics (IoT + Distributed Systems)   *October 2025 – November 2025*
- Developed an IoT-driven distributed traffic analytics platform using **MongoDB Atlas (sharded + replicated)**, **Flask**, **React**, enabling real-time crash insights, spatial queries, and natural-language traffic analytics through vector search.

PUBLICATIONS & ACHIEVEMENTS

Smart Driving Assistance | *Springer Nature (ICCSST)* | *Github Link*   *Jan 2022 – Feb 2023*
- Co-authored research on an AI-based driver assistance system using **YOLO + CNN** trained on the **GTSRB dataset** with **lane structural loss functions for curvature prediction**, achieving **95% reliability** and **90% accuracy** with real-time voice alerts.

Competitive Programming | *CodeChef Link*   *January 2022 – February 2023*
- Achieved **Global Rank 22/3200** in CodeChef April Long Challenge among 3,200+ participants.